

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/JP2004/010442

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12Q1/68 C12N15/11 G01N33/50 A61K39/395 A61K31/7088  
A61P35/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12Q C12N G01N A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, MEDLINE, EMBASE, EMBL, WPI Data, CHEM ABS Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/104573 A1 (JEFFERS MICHAEL ET AL) 5 June 2003 (2003-06-05) column 4, paragraph 2 column 5, paragraph 7 column 15, last paragraph - column 16, paragraph 1 figure 3b	19,28
X	US 2002/068709 A1 (KOCH TROELS ET AL) 6 June 2002 (2002-06-06) column 9, paragraph 3 - column 11, paragraph 3 table 1 claims 1,5,9,14	19,26,27
	-/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

19 November 2004

Date of mailing of the international search report

29/11/2004

Name and mailing address of the ISA

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/025139 A (CALLSTROM MATTHEW ; COLLINS DOUGLAS A (US); MAYO FOUNDATION (US); PREN) 27 March 2003 (2003-03-27) page 120, last paragraph - page 123, paragraph 1 table 4	19,26,27
X	HU M C ET AL: "...FGF-18, a novel member of the fibroblast growth factor family, stimulates hepatic and intestinal proliferation" MOLECULAR AND CELLULAR BIOLOGY, WASHINGTON, DC, US, vol. 18, no. 10, October 1998 (1998-10), pages 6063-6074, XP002113464 ISSN: 0270-7306 page 6065, right-hand column, paragraph 2 - paragraph 3 figure 1	19,26-28
X	HU M C-T ET AL: "HUMAN FIBROBLAST GROWTH FACTOR-18 STIMULATES FIBROBLAST CELL PROLIFERATION AND IS MAPPED TO CHROMOSOME 14P11" ONCOGENE, BASINGSTOKE, HANTS, GB, vol. 18, 22 April 1999 (1999-04-22), pages 2635-2642, XP000991128 ISSN: 0950-9232 figure 1 page 2637, left-hand column, paragraph 3 page 2641, left-hand column, paragraph 2 - right-hand column, paragraph 3	19,26-28
P,X	SHIMOKAWA TAKASHI ET AL: "Involvement of the FGF18 gene in colorectal carcinogenesis, as a novel downstream target of the beta-catenin/T-cell factor complex." CANCER RESEARCH, vol. 63, no. 19, 1 October 2003 (2003-10-01), pages 6116-6120, XP002306241 ISSN: 0008-5472 the whole document	1-24, 26-28

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Box No. 1 Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:

a. type of material



a sequence listing



table(s) related to the sequence listing

b. format of material



~~in written format~~



in computer readable form

c. time of filing/furnishing



contained in the international application as filed



filed together with the international application in computer readable form



furnished subsequently to this Authority for the purpose of search

2. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

3. Additional comments:

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## Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 20-25  
because they relate to subject matter not required to be searched by this Authority, namely:  
Although claims 20-24 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition. Claim 25 was not searched for reasons given under Box II.2.
2. ☒ Claims Nos.: 25, 29  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:  
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.  
☐ No protest accompanied the payment of additional search fees.

## FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

## Continuation of Box II.1

Although claims 20-24 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition. Claim 25 was not searched for reasons given under Box II.2.

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## Continuation of Box II.1

Claims Nos.: 20-25 -----

Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy

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## Continuation of Box II.2

Claims Nos.: 25,29

Claims 25 and 29 refer to compounds which are identified by a method of screening. It is not clear which compounds are identified by the said methods (Art. 6 PCT). As the application furthermore does not disclose any instance of said compounds other than those referred to in claims 20-24, the subject-matter of claims 25 and 29 is unclear to such an extent as to render a meaningful search of the said claims impossible. These claims were, thus, not searched.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

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Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 2003104573	A1	05-06-2003	US	6537554 B1	25-03-2003
US 2002068709	A1	06-06-2002	AU	3041701 A	09-07-2001
			CA	2395320 A1	05-07-2001
			EP	1240322 A2	18-09-2002
			WO	0148190 A2	05-07-2001
			JP	2003524637 T	19-08-2003
WO 03025139	A	27-03-2003	WO	03025139 A2	27-03-2003